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at least one channel extending in a substantially radial direction through each capture shelf to permit fluid communication between adjacent capture shelves in the radial array; and

at least one barrier located on the inner surface of the rotor in the condensing section across the flowpath of the fluid.

**28.** An evaporatively cooled rotor adapted for rotation about an axis and having a rotor wall defining an internal cavity including a vaporization section disposed radially

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outwardly with respect to the rotational axis from a condensing section, the rotor further comprising:

a radial array of capture shelves located along the rotor wall in the vaporization section, each capture shelf having a lip disposed at a substantially constant radius from the rotational axis and a well adjacent to the lip for capturing cooling fluid;

wherein the well of at least one capture shelf has a graded slope adjacent to the rotor wall the graded slope being inclined inwardly away from the condensing section.

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